

Proposal for Eyeview (previously named Skyview)

The principal behind the Eyeview is to include a person's eyeglass prescription in a small ring that can then be attached to the front of an eyepiece used with telescopes, microscopes, lensometers or any other optical system. In this way people who wear eyeglasses under these circumstances will no longer need them in order to see correctly.

Because some optical devices are sealed (ie; microscopes) and also because a person's prescription changes with the distance it is from the eye (vertex distance), it is important that the Eyeview be as close to the viewer as possible. This means that when the Eyeview is used, it should be placed between the viewer and the eyepiece.

The lens is to made from ophthalmic glass coated with an antireflective coating to insure the best optics possible. Depending on the prescription, the center thickness will be no thinner than 2.0 millimeters on the flattest base

curve. In the case of prescriptions with astigmatism, a marker (white dot, x, etc...) will indicate the correct placement of axis for a sphero - cylindrical prescription. The prototype I have made is thirty millimeters in diameter with the ring depth of ten millimeters. This may vary depending on the type of lens the Eyeview is to be fabricated for. The lens will be held in place by two threaded rings on either side of the lens. Finally the Eyeview will be held in place by either three threaded screws at the base, threads or a clamping device.